



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/612,100	07/01/2003	Sea-Weng Young	B-5155 621087-3	3404
36716	7590	12/17/2004		
LADAS & PARRY 5670 WILSHIRE BOULEVARD, SUITE 2100 LOS ANGELES, CA 90036-5679				
			EXAMINER LUK, LAWRENCE W	
			ART UNIT 2838	PAPER NUMBER

DATE MAILED: 12/17/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

10/612,100

Applicant(s)

YOUNG ET AL.

Examiner

Lawrence W Luk

Art Unit

2838

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☐ Responsive to communication(s) filed on ____.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-17 is/are pending in the application.
- 4a) Of the above claim(s) ____ is/are withdrawn from consideration.
- 5) ☒ Claim(s) 7-11 is/are allowed.
- 6) ☒ Claim(s) 1,2,5,6,12,13 and 15 is/are rejected.
- 7) ☒ Claim(s) 3,4,14,16 and 17 is/are objected to.
- 8) ☐ Claim(s) ____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 01 July 2003 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. ____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date 9/29/03.
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. ____.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: ____.

DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

2. Claims 1 and 2 are rejected under 35 U.S.C. 102(b) as being anticipated by Kamiya (4,163,193).

As to claim 1, Kamiya disclose in figure 1, column 11, lines 14 to column 12, line 22, a power-on device f or a circuit system having a power supply terminal coupled to a battery and a charge input terminal coupled to an adaptor, the power-on device comprising: a voltage detector having an input terminal and an output terminal, wherein the input terminal is coupled to the battery, wherein, when voltage of the input terminal is below a threshold voltage, the output terminal outputs a control signal having a first level such that the adaptor supplies the circuit system through the charge input terminal is start the circuit system and charge the battery, and, when voltage of the input terminal is above the threshold voltage, the output terminal outputs the control signal having a second level such that the battery supplies the circuit system.

As to claim 2, Kamiya disclose in figure 2, the first level (30) is a low level, and the second level (27) is a high level.

As to claim 5, Kamiya disclose in figure 2, in column 3, lines 7-8, lines 40-42, column 5, lines 11, the circuit system is a handset.

As to claim 12, Kamiya disclose in figure 1, column 11, lines 14 to column 12, line 22, A power-on method for a circuit system, comprising: coupling a terminal of the circuit system to a battery and the other terminal of the circuit system to an adaptor; detecting voltage of the battery, wherein when voltage of the battery is below a threshold voltage, the adaptor supplies the circuit system to start the circuit system and charge the battery; and detecting voltage of the battery, wherein when voltage of the battery is above a threshold voltage, the battery supplies the circuit system.

Claim Rejections - 35 USC § 103

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

4. Claims 6, 13 and 15 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kamiya (4,163,193) in combination with Koyama et al. (2002/0171400).

As to claim 6 and 15, Kamiya disclose elements as claimed, except for the threshold voltage is 3.2 V.

Koyama et al. disclose in column 1, [0005], the threshold voltage is 3.0 V.

It would have been obvious to person having ordinary skill in the art at the time of the invention was made to modify the device of Kamiya to include for the threshold voltage is 3.0 V., since it has been held that discovering an optimum value of a result

Art Unit: 2838

effective variable involves only routine skill in the art. *In re Boesch*, 617 F.2d 272, 205 USPQ 215 (CCPA 1980).

As to claim 13, Kamiya in view of Koyama et al. are applied supra, and Koyama et al. further disclose in column 4, [0080], the step of converging voltage of the battery to display data and displaying the display data to show charge capacity.

Allowable Subject Matter

5. Claims 7-11 are allowed.

Claim 7 is allowable. The reason for allowance is that the prior art of record fails to disclose or reasonably suggest outputting a switch signal from the circuit system to control a first switch coupled between the adaptor and the charge input terminal for controlling charge capacity. It is these features found in the claim, as they are claimed in the combination, which has not been found, taught or suggested by the prior art of record, which makes this claim allowable over the prior art.

Claims 8-11 are allowed due to their dependency on claim 7.

6. Claims 3, 4, 14, 16 and 17 are objected to dependent upon a rejected base claim. The prior art of record fails to teach or reasonably suggest that:

As to claim 3, the inverter coupled to the output terminal where when the third control terminal has a low level or a high level, the third switch is turned off.

As to claim 4, a display panel; and an analog-to-digital converter having an input terminal and an output terminal, wherein the input terminal of the analog-to-digital

converter is coupled to the battery and the output terminal of the analog-to-digital converter is coupled to the display panel to show charge capacity of the battery.

As to claim 14, wherein the circuit system is a communication apparatus.

As to claim 16, when voltage of the battery is below a threshold voltage, a control signal having a first level is output to turn on a second switch such that the adaptor supplies the circuit system through the second switch to start the circuit system and charge the battery .

As to claim 17, when voltage of the battery is above a threshold voltage, a control signal having a second level is output to turn off the second switch and turn on a third switch such that the circuit system is coupled to the battery through the third switch and the battery supplies the circuit system.

Claims 3, 4, 14, 16 and 17 would be allowable if rewritten in independent from including all of the limitations of the base claim.

Conclusion

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Lawrence W Luk whose telephone number is (571)272-2080. The examiner can normally be reached on 7 a.m. to 5 p.m..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael Sherry can be reached on (571)272-2084. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

LWL
December 10, 2004

Lawrence Luk
examiner
12/10/04